#474

HEOS-2

1 HR. AVG. SOLAR WIND PROTON

72-005A-06A

HEOS 2

1 HR AVGS SOLAR WIND PROTON DATA

72-005A-06A

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 9-TRACK, 1600 BPI TAPE WRITTEN IN ASCII. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON AN IBM 360 COMPUTER AND WAS RESTORED ON THE MRS. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005622	DS005622	D042427	1	02/06/72 - 08/11/74

REQ. AGENT	RAND NO.	ACQ. AGENT
DEW	V0060	RWP

HEOS-2

1 HR. AVG. SOLAR WIND PROTON

72-005A-06A

This data set consists of 1 data tape. The tape is 1600 BPI, ASCII, 9 track with 1 file of data. It was created on an IBM 360 computer.

The time span, D#'s and C#'s are as follows:

D#	C#	TIME SPAN
D-42427	C-21274	02/06/72 - 08/11/74

National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, Maryland
20771

NASA

Reply to Attn of: 692

November 17, 1980

Dr. Heiner Grünwaldt
Max-Planck-Institut fur Aeronomie
Postfach 20
D-3411 Katlenburg-Lindau 3
FEDERAL REPUBLIC OF GERMANY

Dear Dr. Grünwaldt:

I have just received your letter informing me that ~25 years of hourly averaged HEOS-2 solar wind parameters are on their way to me. I thank you for this.

This data set will be advertised as part of the holdings of the National Space Science Data Center. Note that while I am no longer part of that organization, I am still at Goddard, and I maintain an active interest in extending and filling out the interplanetary medium compilation.

I will ask Data Center personnel to compare your parameters to those already in the compilation, for those hours when both are available. (Have you already done any such comparison?) The outcome will determine what normalization, if any, must be applied to your data to make them consistent with the present compilation. Note that all input data sets have been subjected to such analysis.

Sincerely,

Joseph H. King

Joseph H. King
Interplanetary Physics Branch

cc: J. I. Vette, NSSDC

MAX-PLANCK-INSTITUT FÜR AERONOMIE

Heiner Grünwaldt

D-3411 KATLENBURG-LINDAU 3
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Dr. Joseph H. King
Data Acquisition and Analysis Branch
Goddard Space Flight Center
Greenbelt, Maryland 20771
USA

IHR ZEICHEN	IHRE NACHRICHT VOM	UNSER ZEICHEN	DURCHWAHL	DATUM
		HG/sp	(05556) 41 413	Nov. 5, 1980

Dear Dr. King,

hopefully still of use for an updated catalogue to interested scientists we prepared a tape with 1-HR averages of the main solar wind proton parameters, measured during Feb. 1972 and beginning of Aug. 1974, the lifetime of HEOS-2.

The data were measured by the solar wind plasma experiment S-210,1 on this satellite. Experimenters were Helmut Rosenbauer (PI) and Heiner Grünwaldt, Max-Planck-Institut für Extraterrestrische Physik, D-8046 Garching/Munich (now both Max-Planck-Institut für Aeronomie, D-3411 Katlenburg-Lindau). The instrument made use of a quadrispherical electrostatic analyzer with channeltrons. For normal data coverage about 15 sets of 3-dimensionally resolved proton parameters (measurement time 30 sec) could be gained during 1 hour interval, in addition alpha particles and other heavy ions were analyzed in energy/charge channels up to 16 kV.

From the 3-D parameters only density, speed magnitude, and the average temperature were selected for this tape. Only data from positions clearly outside the bowshock were taken, before averaging they were edited with respect to obvious errors. But data close to the bowshock might still be slightly affected by shock related effects. In times where only one parameter (mostly speed) could be determined the two other are set to zero.

../2

The data were written using a formatted FORTRAN WRITE statement (ASCII, 1600 bpi), one 80-character record for each significant hour (1-24):

YEAR	I2	(72-74)
MONTH	I2	
IDAY	I2	day of month
IHOUR	I2	1-24
DENSITY	1PE10.3	protons/cm^3
SPEED	1PE10.3	km/s
TEMPER.	1PE10.3	

The remaining 42 characters are filled with the text:

' HEOS-2 1-HR-SW-PLASMA MAX-PLANCK-INSTITUT'

The tape has been sent to you by separate mail today. Please let us know in case you need additional information, or if you suggest another format or some other changes made.

Sincerely yours,

Heiner Grünwaldt

(Heiner Grünwaldt)

2/06/72 – 8/11/74

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$ASS IN MT1
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS FL=2=2

 TAPE NO.    1              FILE NO.    1
 RECORD    1                LENGTH    134
72 2 617 9.713E+00 3.585E+02 6.254E+04 HEOS-2 1-HR-SW-PLASMA MAX-PLANCK-INSTITUT


 TAPE NO.    1              FILE NO.    1
 RECORD    2                LENGTH    134
72 2 618 8.287E+00 3.584E+02 4.499E+04 HEOS-2 1-HR-SW-PLASMA MAX-PLANCK-INSTITUT


 TAPE NO.    1              FILE NO.    1
 RECORD    11609            LENGTH    134
74 8 111 4.525E+00 3.645E+02 5.130E+04 HEOS-2 1-HR-SW-PLASMA MAX-PLANCK-INSTITUT


 TAPE NO.    1              FILE NO.    1
 RECORD    11610            LENGTH    134
74 8 112 4.874E+00 3.709E+02 5.515E+04 HEOS-2 1-HR-SW-PLASMA MAX-PLANCK-INSTITUT


***** JOB DONE.
$WEO LPS

$$
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